



*Training Course:
Implementation of Cross and Longitudinal
Connections (30/66 kV)*

12 - 23 October 2025

Cairo (Egypt)

Holiday Inn & Suites Cairo Maadi, an IHG Hotel

Training Course: Implementation of Cross and Longitudinal Connections (30/66 kV)

Training Course code: EN235693 From: 12 - 23 October 2025 Venue: Cairo (Egypt) - Holiday Inn & Suites Cairo Maadi, an IHG Hotel Training Course Fees: 6600 € Euro

Introduction

This program provides comprehensive training on the design, installation, and maintenance of cross and longitudinal electrical connections in 30/66 kV systems. Participants will learn about system configuration, connection techniques, and compliance with industry standards, ensuring operational efficiency and reliability in medium- to high-voltage networks.

Objectives

- Understand the principles of cross and longitudinal connections in 30/66 kV systems.
- Gain knowledge of connection design and configuration techniques.
- Master installation and maintenance procedures for high-voltage connections.
- Address challenges in implementing and maintaining these systems.
- Ensure safety and compliance with industry standards and regulations.

Target Audience

- Electrical engineers and field technicians.
- Substation operators and maintenance teams.
- Professionals involved in high-voltage system design and installation.
- Technical teams managing medium- and high-voltage power systems.

Outlines

Day 1: Overview of 30/66 kV Systems

- Introduction to 30/66 kV power systems.
- Key components and configurations.
- Role of cross and longitudinal connections in system reliability.

Day 2: Principles of Electrical Connections

- Theoretical foundations of cross and longitudinal connections.
- Electrical and mechanical properties of connection materials.
- Impact of poor connections on system performance.

Day 3: Design and Configuration of Connections

- Designing cross and longitudinal connections for 30/66 kV systems.
- Tools and software for connection design.
- Case studies of optimal connection designs.

Day 4: Safety Standards and Compliance

- International standards e.g., IEEE, IEC for high-voltage connections.
- Local regulations governing installation and maintenance.
- Ensuring compliance and safety during implementation.

Day 5: Tools and Materials for Connections

- Overview of tools used in cross and longitudinal connections.
- Selection of conductors, connectors, and insulators.
- Proper handling and storage of materials.

Day 6: Installation Techniques

- Step-by-step procedures for implementing cross and longitudinal connections.
- Techniques for securing connections in various environments.
- Common challenges during installation and their solutions.

Day 7: Testing and Inspection of Connections

- Testing tools and methods for 30/66 kV systems.
- Inspection techniques to ensure connection integrity.
- Troubleshooting common issues in high-voltage connections.

Day 8: Maintenance of Connections

- Routine maintenance practices for cross and longitudinal connections.
- Addressing wear, corrosion, and environmental impacts.
- Upgrading aging systems to meet modern requirements.

Day 9: Advanced Topics and Challenges

- Cross and longitudinal connections in complex network topologies.
- Managing connections under extreme weather conditions.
- Solutions for high-stress and high-load scenarios.

Day 10: Practical Application and Case Studies

- Hands-on training for connection implementation.
- Analysis of successful and failed implementations.
- Participant project: Designing and implementing a connection plan for a 30/66 kV system.

Registration form on the Training Course: Implementation of Cross and Longitudinal Connections (30/66 kV)

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